

I CLAIM:

1 1. Apparatus for delivering inhalant to and monitoring exhaled fluid from a patient
2 comprising:

3 a first cannula having a distal end adapted to be received at a first depth in, for delivering a
4 fluid into, a nostril of the patient; and

5 a second cannula having a distal end adapted to be received at a second depth in, for
6 sampling exhaled fluid from, the nostril.

1 2. Apparatus of claim 1, wherein the first depth and second depth each range up to 3 cm.

1 3. Apparatus of claim 1, wherein the second depth equals or exceeds the first depth.

1 4. Apparatus of claim 1, further comprising a port adapted to promote fluid communication
2 between a fluid supply and said first cannula.

1 5. Apparatus of claim 1, further comprising a port adapted to promote fluid communication
2 between a fluid analyzer and said second cannula.

1 6. Apparatus of claim 1, wherein one or both of said distal end of said first cannula and said
2 distal end of said second cannula have: an aperture, a perforated zone, a rounded contour, an
3 anesthetic coating or combinations thereof.

1 7. Apparatus of claim 1, further comprising a moisture trap in fluid communication with said
2 first cannula.

1 8. Apparatus of claim 1, further comprising a moisture trap in fluid communication with said
2 second cannula.

1 9. Method of modifying an apparatus, comprising a first cannula connected for delivering
2 fluid to a nasal cannula, and a second cannula connected to, for drawing fluid from, the nasal
3 cannula, for delivering inhalant and monitoring exhaled fluid comprising:
4 disconnecting the nasal cannula from the first cannula, thereby defining a first truncated end;
5 disconnecting the nasal cannula from the second cannula, thereby defining a second truncated
6 end; and
7 providing one or both of the first truncated end and the second truncated end with: an
8 aperture, a perforated zone, a rounded contour, an anesthetic coating or combinations thereof.

1 10. Method of claim 9, wherein said providing comprises one or both of:
2 connecting a third cannula to the first truncated end; and
3 connecting a fourth cannula to the second truncated end;
4 wherein distal ends of one or both of the third cannula and the fourth cannula have: an
5 aperture, a perforated zone, a rounded contour, an anesthetic coating or combinations thereof.

1 11. Method of delivering inhalant to and monitoring exhaled fluid from a patient comprising:
2 inserting to a first depth a distal end of a first cannula in, for delivering a fluid into, a nostril
3 of the patient; and
4 inserting to a second depth a distal end of a second cannula in, for sampling exhaled fluid
5 from, the nostril.

1 12. Method of claim 11, wherein the first depth and second depth range up to 3 cm.

1 13. Method of claim 11, wherein the second depth equals or exceeds the first depth.

1 14. Method of claim 11, further comprising, prior to one or both of said inserting to a first
2 depth and said inserting to a second depth, providing one or both of the distal end of the first cannula
3 and the distal end of the second cannula with: an aperture, a perforated zone, a rounded contour, an
4 anesthetic coating or combinations thereof.